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# SEQUENCE LISTING

RECEIVED  
JAN 24 2002  
TECH CENTER 1600/2900

<110> Doberstein, S.  
Elson, S.  
Ferguson, K.  
Homburger, S.

<120> ANIMAL MODELS AND METHODS FOR ANALYSIS OF LIPID METABOLISM AND SCREENING OF PHARMACEUTICAL AND PESTICIDAL AGENTS THAT MODULATE LIPID METABOLISM

<130> 7326-101, EX99-004

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<141> 1999-06-14

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<170> PatentIn version 3.1

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Thr Thr Pro Gln Glu Pro His Pro Ser Gly Glu Pro Trp Pro Pro Glu  
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Leu Pro Trp Ala Gln Ser Ser Pro Ala Phe Phe Tyr Val Gln Gln Ile  
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Thr Leu Arg Thr Ser Val Leu Pro Trp Thr Glu Gly Met Gln Leu Met  
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Asp Ala Phe Arg Ala Pro Leu His Glu Val Phe Lys Leu Leu Glu Ile  
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Val Arg Asn His Gln Ser Ser Glu Asn Lys Arg Thr Leu Glu His Asn  
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Cys Leu His Val Asp Asn Val Lys Arg Gly Thr His Gly Gln Leu Asp  
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Gln Ile Phe Pro Glu Tyr Gly Cys Leu Leu Leu Ser Pro Ala Asn Leu  
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Trp Thr Gln Asn Ser Gln Asn Phe Thr Arg Asp Thr Asn Ile Leu Asn  
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Thr Ile Phe Gln Tyr His Asn Leu Gln Lys Ser Lys Val Ser Ala Ala  
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Glu Met Leu Phe Gly Leu Pro Met Gln Asp Thr Gly Phe Lys Arg Tyr  
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Pro Leu Arg Ala Arg Ser Arg Ile Ile Gln Tyr Ala Leu Thr Leu Phe



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			450						455						460		
Ile	Lys	Arg	Thr	Glu	Tyr	Thr	Ala	Glu	Ala	Lys	His	Leu	Pro	Lys	Met		
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 Pro Lys Arg Ile Lys Ile Val Asn Phe Trp Ala Arg Thr Arg Phe Phe  
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 Gln Arg Ala Phe Met Ile Trp Met Ile Val Trp Ile Cys Ser Ile Val  
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 Ala Thr Ser Ala Pro Ser Gly Ser Gly Phe Ser Thr Pro Ile Lys Ala  
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 Pro Leu Ala Ile Asp Ile Asn Glu Thr Ala Glu Glu Met Met Arg Leu  
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 Arg Tyr Pro Ser Phe Asp Leu Asn Tyr Phe Leu Ser Asn Phe His Trp  
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 Ser Thr Ile Met Lys Gln Tyr Asn Ile Ser Leu Ser Gly His Tyr Val  
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Ala Thr Leu Leu Arg Asn Pro Gln Glu Gln Leu Gln Gln Asn Phe Gln  
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Trp Lys Ala Leu Ala Ala Ala Leu Asp Pro Leu Asp Phe Asn Asp Asp  
725 730 735

Asp Val Arg Arg Glu Ser Pro Met Val Met Ala Glu Gly Leu Pro Leu  
740 745 750

Val Pro Lys Ser Pro Met Glu Ile Phe Phe Ala Ile Leu Leu Cys Cys  
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Ile Ser Ile Phe Val Leu Cys Tyr Thr Met Val Val Phe Tyr Arg Cys  
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Ile Cys Thr Arg Asn Tyr Ala Glu Trp Arg Ser Ser Trp His Glu Ser  
785 790 795 800

Glu Ala Pro Tyr Lys Gln Thr Glu Gln Ile Leu Glu Gly Val Pro Thr  
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Gln Ile Ala Gly His Lys His Arg Ile Glu Cys Leu Val Ser Asp Gly  
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Ala Tyr Ile Ile Ser Cys Cys Leu Lys Gly Gln Ile Arg Val Trp Asp  
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Ala Arg Ser Gly Glu Gln Leu Thr Ser Ile Ser Arg Ser Asp Ile Gln  
850 855 860

Ile Ser Gln Gln Arg Thr Asp Gly Gln Thr Leu Val Arg Lys Leu Ala  
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900 905 910

Leu Lys Cys Ala Tyr Gln Glu Asp Ala Lys Arg Asn Gln Gly Ile Thr  
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His Ile His Leu Asn Gly Asp Arg Val Ile Val Ala Arg Leu Asn Gly  
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Arg Leu Asp Phe Tyr Arg Leu Glu Thr Tyr Tyr Lys Gly Lys Gln Ile  
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Val Tyr Cys Leu Asn Lys Ser Asp Val Glu Tyr Thr Leu His Gly  
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Leu His Ser Asp Met Leu Asp Ile Ile Leu Asn Asp Met Asp Leu Ala  
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Pro Thr Gln Met Tyr Asn Met Leu Leu Asp Glu Pro Arg Thr His Thr  
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Pro His Val Lys Ser Glu His Ser Ser Pro Val His Ile Lys Glu Glu  
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Leu Asn Cys Leu His Met Phe Gly Leu Ser Leu Pro Ala Ser Arg Leu  
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Glu Cys Tyr Leu Gln Thr Thr Trp Gln Phe Leu Arg Phe Leu Phe His  
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Ala Leu Leu Phe Asn Arg Leu Asn Gln Leu Gln Leu Thr Gly Asn Gly  
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Ser Arg Gly Asp Met Asn Gly Ile Met Met Ala Leu Phe Ala Ser Asn  
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Ala Leu His Ala Val Leu Arg Ala Lys Met Ile Leu Leu Lys Asn Asn  
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Thr Ile Thr Arg Leu Arg Leu Pro Val Ser Thr Pro Ile Asp Val Phe  
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Trp Ser Glu His Leu His Val Asn Asp Lys Ile Ala Pro Phe Trp Ile  
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Asn Glu Asn Pro Ala Ser Tyr Ile Gln Gln Phe Ile Val Ser Thr Thr  
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Ile Ser Pro Trp Asn Ala Thr Glu Met Gly Pro Glu His Ala Val Arg  
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Arg Leu Gly Leu Glu Glu Lys Arg Lys Phe Ala Glu Ile Leu Leu Tyr  
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Glu Glu Ile Pro Arg Leu Lys Asn Tyr Ala Pro Val Ser Cys Pro Met  
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Val Gln Glu Pro Arg Pro Glu Asp Ser Val Arg Met Lys Ile Met Tyr  
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Phe Ile Thr Arg Thr Arg Ile Val Gln Arg Thr Ile Leu Val Val Phe  
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Ala Ile Trp Thr Val Phe Leu Val Phe Phe Val Gly Ser Arg Gln Leu  
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Glu Tyr Asn Ile Ser Leu Asn Ser Arg Tyr Val Thr Phe Leu Pro Pro  
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Ile Val Ile Asn Ala Ile Val His Pro Thr Asp Ile Leu Leu Gln Asn  
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Val Glu Lys Thr His Val Asn Val Pro Asn Glu Glu Glu Asp Ala Pro  
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Ala Tyr Val Phe Leu Ile Asp Arg Trp Lys Leu Arg Gly Val Lys Gln  
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Val Lys Asn Phe Val Asp Thr Leu Pro Ile Val Tyr Gln Gly His Arg  
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Phe Pro Ile Glu Ser Val Ala Ile Asp Pro Glu Asp Thr Ser Thr Phe  
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Val Ser Cys Cys Gln Glu Gly Val Val Tyr Val Trp Asn Thr Gln Thr  
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Gly Gln Arg Thr Leu Arg Ile Asn Arg Leu Arg Ala Val Pro Glu Lys  
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Gly Lys Glu Ile Pro Ser Ala Pro Lys Ile Trp Ala Ile Ala Lys Arg  
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His Phe Phe Ser Asn Thr Thr Ser His Val Val Cys Arg Glu Asp Asp  
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Val Ala Val Val Arg Leu Asp Gly Ser Ile Glu Phe Leu Arg Ile Asp  
785 790 795 800

Tyr Asp Arg Thr Asp Gly Thr Ile Arg Val Arg Lys Ile Glu Leu Leu  
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Lys Ser Val Arg Ala His Gln Lys Pro Val Cys Arg Ile Ala Ile Trp  
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Lys Ser Gln Leu Ile Thr Ser Ser Phe Asp Arg Ser Ile Lys Met Trp  
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Asn Trp Ala Glu Asn Pro Glu Gln Ile Asp Ile Ser Asn Val Phe Leu  
850 855 860

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Asn Thr Gly Glu Leu Ile Arg Thr Asn Asp Asn Asn Tyr Thr Trp Ala  
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Ser Gln Leu Tyr Met Trp Asn Val Glu Asn Gly Gln Leu Ala Cys Arg  
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Ile Gly Lys Val Lys Leu Asn Gly Lys Ile Ser Ser Met Arg Lys Asn  
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Ala Leu Leu Ala Met Xaa Met Phe His Ala Ser Pro Val Ile Leu Ser  
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Pro Val Leu Ala Asn Gly Tyr Xaa Val Ser Val Arg Gly Val Asp Val  
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Arg Ser Xaa Leu Ser Asn Pro Arg Thr Gly Leu Val Ala Gly Asp Val  
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Val Lys Ser Val Asp Glu Cys

